

DERWENT-ACC-NO: 2000-593152

DERWENT-WEEK: 200056

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TITLE: Method of shot-preening of seamless railway wheelsINVENTOR: ANTIPOV, B F; BAZIN, S V ; KONDRUSHIN, A I ; KOROLEV, S A ;
SIDOROV, I P ; TARASOVA, V A ; YANDIMIROV, A A

PRIORITY-DATA: 1998RU-0108770 (April 29, 1998)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|---------------|----------------|----------|-------|-------------|
| RU 2146996 C1 | March 27, 2000 | N/A | 000 | B24C 001/10 |

INT-CL (IPC): B24C001/10

ABSTRACTED-PUB-NO: RU 2146996C

BASIC-ABSTRACT:

NOVELTY - Method may be used for surface strengthening of articles and preparation of surface for application of coating. Method includes surface strengthening of disc and places of its turning into rim and hub by shot. The operation is performed by ejection of shot from six Laval's nozzles at pressure of 4.6-5.5 kgf/sq. cm for 10-8 min on both sides of wheel. Laval's nozzles are positioned in diametrically opposite directions for overlapping of surface working zones by three pairs of nozzles by at least radius value of every zone of working. Use of the proposed method provides for enhancing of endurance limit of disc by 30-40%.

USE - Mechanical engineering and metallurgy.

ADVANTAGE - Higher efficiency. 2 dwg, 1 ex

DERWENT- 1999-632159

ACC-NO:

DERWENT- 199954

WEEK:

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TITLE: Manual process of shot preening of cylindrical surfaces of parts with development of special device and process check and control method

INVENTOR: KAZAKOV, V M

PRIORITY-DATA: 1996RU-0116498 (August 12, 1996)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|---------------|----------------------|----------|-------|-------------|
| RU 2113971 C1 | <u>June 27, 1998</u> | N/A | 000 | B24C 001/00 |

INT-CL (IPC): B24C001/00

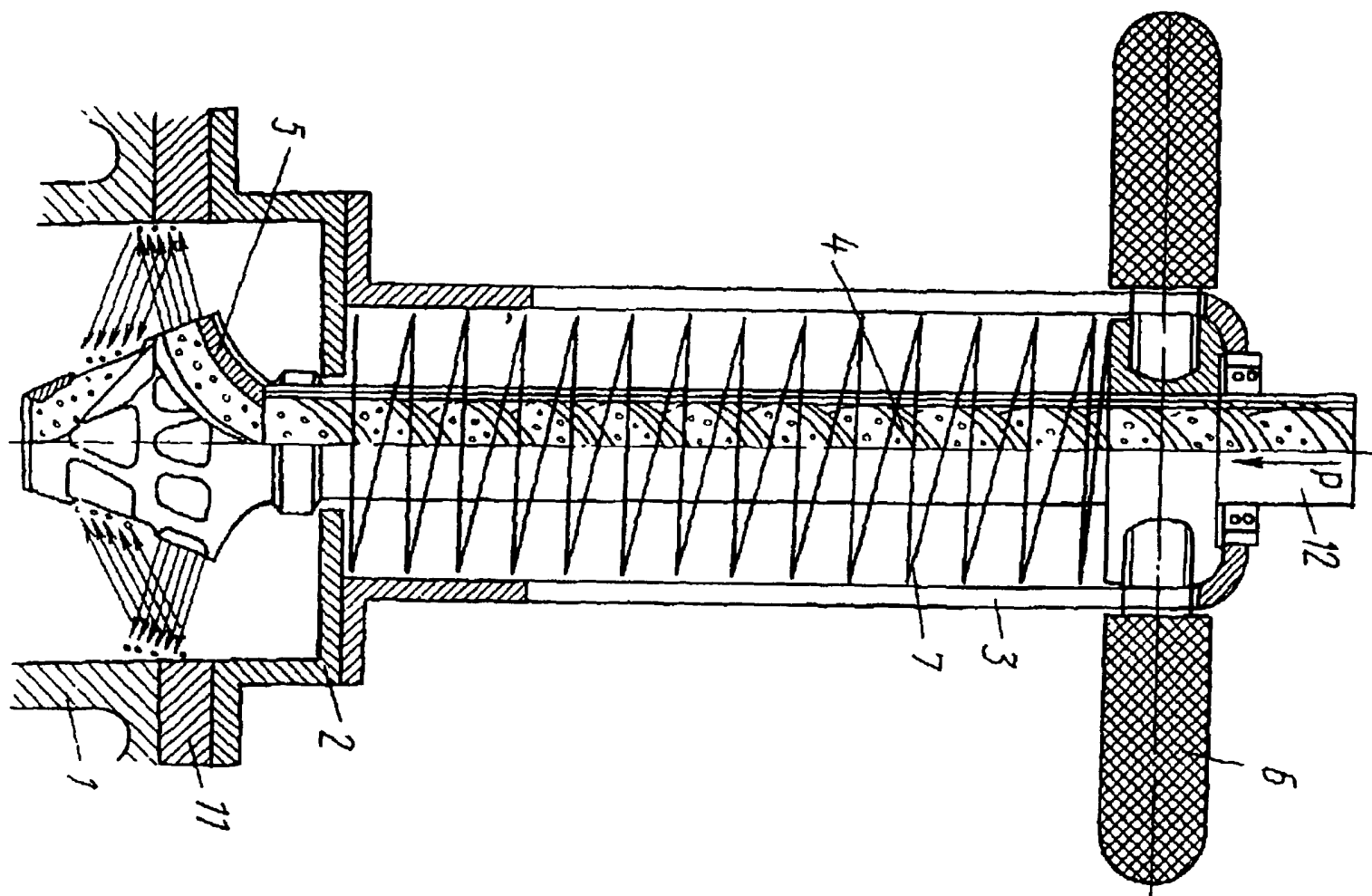
ABSTRACTED-PUB-NO: RU 2113971C

BASIC-ABSTRACT:

NOVELTY - Device which rotates turbohead by means of suspension jet flow is positioned on cylinder being worked. Rigid shot-jet ring is formed by shot-jet flow through turbohead nozzles. This ring is used for working of cylinder with false cylinders within preset travel of turbohead.

USE - Shot-blasting finishing and strengthening technology of cylindrical surfaces of parts.

ADVANTAGE - Extended capabilities of shot-preening. 3 cl, 7 dwg , 1 tblr



DERWENT-ACC- 2002-081391

NO:

DERWENT- 200211

WEEK:

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TITLE: Method and apparatus for finishing-strengthening working
of cylindrical surfaces

INVENTOR: KAZAKOV, V M

PRIORITY-DATA: 1999RU-0125847 (December 6, 1999)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|------------|----------------------|----------|-------|-------------|
| RU 2176184 | C2 November 27, 2001 | N/A | 000 | B24C 001/00 |

INT-CL (IPC): B24C001/00, B24C003/10

ABSTRACTED-PUB-NO: RU 2176184C

BASIC-ABSTRACT:

NOVELTY - Method involves working part surface by means of three disk-shaped tool heads containing small shots, such as bearing balls, which are fed by means of turbine into nozzle head outlet openings. Mentioned heads are attached to spindle by means of fastening head. Turbine is rotated by energy carrier supplied through turbine rib. Part working modes and conditions are cited in Specification. Method and apparatus are used for shot preening of cylindrical surfaces of parts, such as cylinder sleeves for internal combustion engines and compressors.

USE - Mechanical engineering.

ADVANTAGE - Wider range of facilities and improved quality of part surfaces. 3 cl, 1 dwg

